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Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applic	ation No.	Applicant(s)						
Office Action Summary			0,263	BARRACLOUGH	ET AL.					
			ner	Art Unit						
		Michae	el R. Shannon	2614						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply										
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status										
2a)☐ This ad 3)☐ Since	Responsive to communication(s) filed on <u>09 September 2005</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Disposition of Claims										
 4) Claim(s) 1-74 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-74 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 										
Application Pag	ers									
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.										
Priority under 35 U.S.C. § 119										
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.										
2) Notice of Draf 3) Information D	erences Cited (PTO-892) tsperson's Patent Drawing Review (P isclosure Statement(s) (PTO-1449 or I fail Date		4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate	O-152)					

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see pages 15-18, filed September 9, 2005, with respect to the rejection(s) of claim(s) 11-13 under 35 USC §201(b) over Hamlin (USPN 5,574,964) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Hamlin (USPN 5,574,964) in view of Ellis et al (US Pub. No. 2005/0251827).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-6, 8-16, 21, 23-28, 30, 32-36, 42-49, 51, 53-59, 63-66, 68, 70, and 74 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamlin (USPN 5,574,964) in view of Ellis et al (US Pub. No. 2005/0251827), cited by Examiner.

Regarding claim 1, the claimed arrangement for processing external-services data for use in a user facility is met as follows:

 The claimed audio, video, and data signal bussing arrangement adapted to distribute audio, video, and data to designated points in the user facility is met by the communication bus 36, which serves to receive information

from external services and communicate the information to the network [col. 3, lines 3-12].

- The claimed plurality of appliances communicatively coupled to the bussing arrangement, wherein the plurality of appliances are adapted to process at least one of: audio, video, and data signals is met by the plurality of interface pods 44, which can interface a plurality of appliances [col. 3, lines 13-18].
- The claimed "at least one data memory circuit adapted to store external services data and adapted to store configuration data" is only partially met by the Hamlin reference. Hamlin teaches system database storage 48 within the system controller that holds information on the status of the distribution system 10. The database 48 stores information that is useful in configuring and controlling the system [col. 4, lines 16-27]. The Hamlin reference does not teach that external services data can be stored in a data memory circuit. The Ellis reference cures this deficiency in teaching a server 80, as the primary device in the home [Fig. 5 and paragraph] 0074]. The server, as taught with reference to a separate embodiment. handles data distribution tasks and stores local information. The server may be used to implement a client-server based interactive television program guide system. Also, the server 42 may be capable of handling text, graphics, and video [paragraph 0062]. It would have been clearly obvious to one of ordinary skill in the art at the time of the invention to

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implement the "converter/system controller" of Hamlin like the server taught by Ellis, in order to use a typical client-server architecture in the home for storing and serving video and other data to devices in the home, just as the typical server does on a much larger scale.

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The claimed programmable network interface unit (NIU) adapted to store external services data in the memory circuit and to communicatively couple the stored external services data from the memory circuit to the plurality of appliances in the user facility via the bussing arrangement as a function of the configuration data in the memory circuit is met by converter 34, which serves to receive the external services data and send it to the bussing arrangement [col. 3, lines 3-13]. As noted above, the Hamlin reference does not discuss that the external services data can be stored on the converter. The Ellis reference, however, does teach that the inhome server 80 can store and serve video to users throughout the home via a bussing arrangement [paragraphs 0062 and 0074]. The configuration data stored in the system database storage 48, as discussed above, is used and taught by the Hamlin reference to monitor and control activity throughout the home [col. 4, lines 16-27]. It would have been clearly obvious to one of ordinary skill in the art at the time of the invention to implement the "converter/system controller" of Hamlin like the server taught by Ellis, in order to use a typical client-server architecture in the

home for storing and serving video and other data to devices in the home, just as the typical server does on a much larger scale.

• The claimed user input device adapted access the data stored in the memory circuit, to program the programmable NIU by providing the configuration data and to command the NIU to process the external-services data for use at a particular one of the plurality of appliances in the user facility is met by the remote controller 42, which allows for input of programming and use information [col. 5, lines 34-45]. Furthermore, in the client-server architecture as taught by the Ellis reference, a data input device 140 or remote control 54 [Fig. 10] can be used to request information stored at the server for display at the user device [paragraphs 0085-0065].

Regarding claim 2, the claimed user input device including one of the plurality of appliances is met by the remote controller's 42 ability to control directly or indirectly the system controller 38 [col. 5, lines 34-45].

Regarding claim 3, the claimed plurality of appliances including at least one of a TV, a phone, a computer, a printer, a videophone, a videocassette recorder, an analog recorder, a digital recorder, a stereo, a camera, a wireless phone, an intercom, an audio speaker, and a pager is met by the Receiving Units (TVs, VCRs, Computers, phones, etc.).

Regarding claim 4, the claimed user input device including at least one of: a TV, a phone, a computer, a videophone, a videocassette recorder, a wireless phone, an

audio speaker, a pager, a remote control, a modem, a voice recognition system, an Internet access device, a keypad, and a touch screen is met by the remote controller 42.

Regarding claim 5, the claimed bussing arrangement including at least one of: a coaxial cable, a telephony line, a Ti line, an ISDN line, a DSL line, an infrared transmitter, a wireless transmitter, a telephone modem, a wireless modem, a cable modem, a broadband modem, and a computer network is met by the CABLE 30, AOSL 32, TELEPHONE 37, and other forms of mass media signals as discussed in column 2, lines 59-67.

Regarding claim 6, the claimed user input device including a television remote adapted to select NIU commands from a display generated by the NIU and displayed on the television is met by the system controller 38 and the remote controller 42 of the system controller, which has a human input device 55 and a display device 45 for configuring the reception and configuration of the system [col. 3, lines 59-65 & col. 5, lines 34-45].

Regarding claim 8, the claimed NIU being further adapted to configure the external services data for use at a particular one of the plurality of appliances is met by the converter 34, which converts the mass media signals into a signal that is transmitted along a communication bus 36 for delivery to an interface pod 44 and converted for playback on the appropriate device [col. 3, lines 3-23].

Regarding claim 9, the claimed external services data including audio and video data, wherein the NIU is adapted to configure the audio data for use at an audio

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appliance and to configure the video data for use at a video appliance is met by the mass media signals, such as video, audio, and various other types of electronic mass media information [col. 1, lines 47-52] being delivered to the home, converted, sent to the communication bus and utilized according to the format type on a audio appliance or video appliance.

Regarding claim 10, the claimed arrangement for processing external-services data for use in a user facility, according to claim 1, wherein the NIU includes the data memory circuit is not met fully by the Hamlin reference. While Hamlin does teach that the system controller contains system database storage 48 for storing configuration information, he does not teach that the external-services data can be stored at the converter/controller. The Ellis reference cures this deficiency in teaching a server 80, as the primary device in the home [Fig. 5 and paragraph 0074]. The server, as taught with reference to a separate embodiment, handles data distribution tasks and stores local information. The server may be used to implement a client-server based interactive television program guide system. Also, the server 42 may be capable of handling text, graphics, and video [paragraph 0062]. It would have been clearly obvious to one of ordinary skill in the art at the time of the invention to implement the "converter/system controller" of Hamlin like the server taught by Ellis, in order to use a typical client-server architecture in the home for storing and serving video and other data to devices in the home, just as the typical server does on a much larger scale.

Regarding claim 11, the claimed NIU being adapted to store incoming external services data at the data memory circuit until a routing command is received from the

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user input device, and to route the external services data directly from the data memory circuit in response to the received routing command is met by remote controller 42, which allows for input of programming and use information [col. 5, lines 34-45]. Furthermore, in the client-server architecture as taught by the Ellis reference, a data input device 140 or remote control 54 [Fig. 10] can be used to request information stored at the server for display at the user device [paragraphs 0085-0086]. The server may be used to implement a client-server based interactive television program guide system. Also, the server 42 may be capable of handling text, graphics, and video [paragraph 0062]. It would have been clearly obvious to one of ordinary skill in the art at the time of the invention to implement the "converter/system controller" of Hamlin like the server taught by Ellis, in order to use a typical client-server architecture in the home for storing and serving video and other data to devices in the home, just as the typical server does on a much larger scale, in which users can utilize the input devices to request stored information, much like is done in a video on demand system which is commonplace in the art.

Regarding claim 12, the claimed user input device being adapted to communicate with the NIU and determine the type of external-services data that is stored is met by the remote controller 42, which allows for input of programming and use information [col. 5, lines 34-45]. Furthermore, in the client-server architecture as taught by the Ellis reference, a data input device 140 or remote control 54 [Fig. 10] can be used to request information stored at the server for display at the user device [paragraphs 0085-0086]. The server may be used to implement a client-server based

interactive television program guide system. Also, the server 42 may be capable of handling text, graphics, and video [paragraph 0062]. It would have been clearly obvious to one of ordinary skill in the art at the time of the invention to implement the "converter/system controller" of Hamlin like the server taught by Ellis, in order to use a typical client-server architecture in the home for storing and serving video and other data to devices in the home, just as the typical server does on a much larger scale, in which users can utilize the input devices to request stored information, much like is done in a video on demand system which is commonplace in the art.

Regarding claim 13, the claimed user input device being adapted to determine the source of the external-services data is met by the system database storage 48, within the system controller 38, which serves to store information on the incoming signal and it's frequency and source [col. 4, lines 16-29].

Regarding claim 14, the claimed NIU being adapted to store configuration information in the data memory circuit, wherein the configuration information includes routing information for external services data, again, is met by the RAM, ROM, and system database storage, which serve to store information about incoming signals and therefore, properly route the signals along the communication bus to the appropriate devices [col. 3, line 59 - col. 4, line 33].

Regarding claim 15, the claimed external-services data including data having a first data form, wherein the NIU is adapted to convert the external services data into a second data form for use by a particular one of the plurality of appliances is met by

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converter 34, which serves to convert from the input media signal into a media signal that the interface pods 44 can utilize and output to the device [col. 3, lines 3-23].

Regarding claim 16, the claimed first data form including packet-based data, and the second data form including non-packet-based data is met by the converter 34 being able to convert from mass media signals or internet signals to a signal that is communicated on the communication bus 36.

Regarding claim 21, the claimed plurality of appliances including a TV, wherein the NIU is adapted to display the configuration of the plurality of appliances on the TV screen is met by the system controller 38, which is one of the plurality of appliances and contains a display device 45 for display of the configuration and user operation therewith [col. 3, lines 59-65].

Regarding claim 23, the claimed user input device being adapted to command the NIU based upon the configuration display on the TV screen is met by the control of the system by the human input device 55 via the display device 45 of system controller 38.

Regarding claim 24, the claimed one of the plurality of appliances including a display, wherein the NIU is adapted to display the stored incoming external services data on the display is met by the inclusion of the television in the network, which can be directed by the system controller 38 to display information from the system database storage 48, such as data from the external services [col. 4, lines 16-33].

Regarding claim 25, the claimed user input device being adapted to command the NIU based upon the displayed incoming external services data is, again, met by the

inclusion of the television in the network, which can be directed by the system controller 38 to display information from the system database storage 48, such as data from the external services [col. 4, lines 16-33].

Regarding claim 26, the claimed NIU being adapted to display email, audio messages, and video messages, and wherein the user input device is adapted to respond to an input corresponding to the displayed information and to command the NIU to route the displayed information to a particular one of the plurality of appliances is met by the ability of the system to follow user input to provide programming information to the appropriate appliance through user prompts and selections [col. 5, lines 34-48].

Regarding claim 27, the claimed digital memory circuit coupled to the NIU, wherein the external services data is digital data and is stored in the digital memory circuit is, again, met by converter 34, which serves to receive the external services data and send it to the bussing arrangement [col. 3, lines 3-13]. As noted above, the Hamlin reference does not discuss that the external services data can be stored on the converter. The Ellis reference, however, does teach that the in-home server 80 can store and serve video to users throughout the home via a bussing arrangement [paragraphs 0062 and 0074]. The configuration data stored in the system database storage 48, as discussed above, is used and taught by the Hamlin reference to monitor and control activity throughout the home [col. 4, lines 16-27]. It would have been clearly obvious to one of ordinary skill in the art at the time of the invention to implement the "converter/system controller" of Hamlin like the server taught by Ellis, in order to use a

typical client-server architecture in the home for storing and serving video and other data to devices in the home, just as the typical server does on a much larger scale.

Regarding claim 28, the claimed external services data being stored at a location external from the NIU is met by the ability to store the data at a user device VCR as taught by the user routing the signal from the converter to the other VCR for recording [col. 5, lines 46-60].

Regarding claim 30, the claimed user input device being coupled to the bussing arrangement and using the bussing arrangement to command the NIU is met by the system controller 38, which is one of the devices on the bussing arrangement and is used to control converter 34.

Regarding claim 32, the claimed user input device being adapted to send control signals to the NIU that are configured to enable the control of external-data services including at least one of: caller ID information, address book information, pay-per-view access information, downloadable multimedia information, dynamically allocable telephone numbers, call forwarding, message on hold, directory assistance, and household systems control information is met by the discussion of the downloading of stock information, which is downloadable multimedia information through the NIU [col. 6, line 66 – col. 7, line 8].

Regarding claim 33, the claimed NIU including a printed circuit board (PCB) having at least one general processor and at least one specific processor adapted to process video data is met by the discussion of the converter and the extension boards that can be purchased to process more data [col. 7, lines 21-24].

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Regarding claim 34, the claimed PCB including a RISC processor is, again, met by the discussion in column 7, lines 21-24. The inclusion of a RISC processor, while commonly known in the art, is not a patentable distinction over claim 33, and is therefore rejected on the same grounds.

Regarding claim 35, the claimed PCB including a DSP processor is, again, met by the discussion in column 7, lines 21-24. The inclusion of a DSP processor, while commonly known in the art, is not a patentable distinction over claim 33, and is therefore rejected on the same grounds.

Regarding claim 36, the claimed each of the plurality of appliances being adapted to deliver status information signals to the NIU including the status of the appliance sending the signal, further comprising a user interface device adapted to access and provide the status information to a user is met by the system database storage 48, which has the ability to monitor the status of the interface pods and devices on the network by monitoring the activity at each location [col. 4, lines 16-27].

Regarding claim 42, the claimed appliance interface device coupled to an appliance and to the bussing arrangement and adapted to receive a first type of signal and convert the data signal to a second type of data signal is met by the interface pods 44, which serve to couple the appliance to the bussing arrangement and convert the signal carried on the communication bus to a signal that is intelligible by the appliance [col. 4, lines 28-51].

Regarding claim 43, the claimed appliance interface device being further adapted to receive a signal via a first type of communications line and to transmit the signal via a

second type of communications line is met by the converter within the interface pods 44, which can receive information from the communication bus and transmit it via a wireless link or analog link [col. 4, lines 28-51].

Regarding claim 44, the claimed appliance interface device being programmable via a user input is met by the system controller 38, and it's ability to program and control the NIUs and the interface pods.

Regarding claim 45, the claimed appliance interface device being programmable by an external-services provider via the NIU is met by the system database storage 48, which can store information sent in through the NIUs and use the information to program and utilize the interface pods.

Regarding claim 46, the claimed network interface system for interfacing different types of communication systems including a first user-based communication system and a packet-based communication system is met as follows:

• The claimed data memory circuit adapted to store configuration data and packet-based data from the packet-based communication system is only partially met by the Hamlin reference. Hamlin teaches system database storage 48 within the system controller that holds information on the status of the distribution system 10. The database 48 stores information that is useful in configuring and controlling the system [col. 4, lines 16-27]. The Hamlin reference does not teach that external services data can be stored in a data memory circuit. The Ellis reference cures this deficiency in teaching a server 80, as the primary device in the home [Fig. 5 and

paragraph 0074]. The server, as taught with reference to a separate embodiment, handles data distribution tasks and stores local information. The server may be used to implement a client-server based interactive television program guide system. Also, the server 42 may be capable of handling text, graphics, and video [paragraph 0062]. It would have been clearly obvious to one of ordinary skill in the art at the time of the invention to implement the "converter/system controller" of Hamlin like the server taught by Ellis, in order to use a typical client-server architecture in the home for storing and serving video and other data to devices in the home, just as the typical server does on a much larger scale.

- The claimed user communication device is met by the system controller
 38 and remote controller 42, used to communicate with the system.
- The claimed processor arrangement adapted to write configuration data into and read configuration data from the memory circuit and to provide data for presenting configuration information for accessing at the user communication device, further adapted to process data received from, and exchange processed data between, the first user-based communication system and the packet-based communication system, and, in response to the configuration data, also adapted to route selected information provided by the packet-based communication system and to route data stored at the data memory circuit to selected channels of the first user-based communication system is met by the system controller 38 in conjunction

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with the converter 34 and the interface pods 44, which all serve to exchange processed data between the communication bus 36 and the external mass media providers. In the case of the Ellis reference, the input device 140 or the remote control 54 can be used to request information from the stored information at the server [paragraphs 0085-0086]. The server may be used to implement a client-server based interactive television program guide system. Also, the server 42 may be capable of handling text, graphics, and video [paragraph 0062]. It would have been clearly obvious to one of ordinary skill in the art at the time of the invention to implement the "converter/system controller" of Hamlin like the server taught by Ellis, in order to use a typical client-server architecture in the home for storing and serving video and other data to devices in the home, just as the typical server does on a much larger scale, in which users can utilize the input devices to request stored information, much like is done in a video on demand system which is commonplace in the art.

The claimed user input means for inputting configuration-defining control
signals, wherein the processor arrangement responds to the configurationdefining control signals by changing the configuration data in the memory
circuit and by rerouting selected information provided by the packet-based
communication system to selected channels of the first user-based
communication system according to the configuration-defining control

signals is met by the human input device 55 and/or remote controller 42 for controlling the system controller 38, in an attempt to configure and reroute data according to the appliance and interface pod that the data will be viewable on.

Regarding claim 47, the claimed network system coupled to the first user-based communications system is met by communication bus 36, which couples the network together.

Regarding claim 48, the claimed user input means including at least one of: an IR key panel, a wall-mount unit for the system, a TV, a telephone, a computer, a videophone, a videocassette recorder, a wireless phone, a remote control, a modem, a voice recognition system, an Internet access device, a keypad, and a touch screen is met by the human input device 55 and/or remote controller 42.

Regarding claim 49, the claimed processor arrangement being further adapted to write configuration data into the memory circuit in response to signals received from the packet-based communication system is met by the ability for the user to control the system controller 38 and reconfigure the system based on the system database storage 48, in an attempt to configure and route information on the packet-based communication system as necessary [col. 3, line 59 – col. 4, line 33].

Regarding claim 51, the claimed user communication device including at least one of: a TV monitor, a printer, and computer is met by the system controller 38, having a display device 45, and CPU 43 [col. 3, lines 59-65].

Regarding claim 53, the claimed user input means including a computer adapted to communicate on the Internet is met by the discussion of the connection via an ADSL line, which can provide Internet Connections [col. 2, lines 59-67].

Regarding claim 54, the claimed packet-based communication system including at least one of: a cable modem, a wireless modem, a broadband modem, a telephone modem, a DSL, a T1 line, and a computer network is met by the modem coupled to the system controller as discussed in column 4, lines 9-15.

Regarding claim 55, the claimed network interface system for interfacing different types of communication systems including a first user-based communication system and a packet-based communication system is met as follows:

• The claimed data memory circuit adapted to store data including packet-based data received via the packet-based communication system is only partially met by the Hamlin reference. Hamlin teaches system database storage 48 within the system controller that holds information on the status of the distribution system 10. The database 48 stores information that is useful in configuring and controlling the system [col. 4, lines 16-27]. The Hamlin reference does not teach that external services data can be stored in a data memory circuit. The Ellis reference cures this deficiency in teaching a server 80, as the primary device in the home [Fig. 5 and paragraph 0074]. The server, as taught with reference to a separate embodiment, handles data distribution tasks and stores local information. The server may be used to implement a client-server based interactive

television program guide system. Also, the server 42 may be capable of handling text, graphics, and video [paragraph 0062]. It would have been clearly obvious to one of ordinary skill in the art at the time of the invention to implement the "converter/system controller" of Hamlin like the server taught by Ellis, in order to use a typical client-server architecture in the home for storing and serving video and other data to devices in the home, just as the typical server does on a much larger scale.

- The claimed user communication device is met by the system controller
 38 and remote controller 42, used to communicate with the system.
 - The claimed processor arrangement adapted to write data-intercept select data into and read data-intercept select data from the memory circuit and to provide data for communicating with a user via the communication device, further adapted to process data received from, and exchange processed data between, the first user-based communication system and the packet-based communication system, and, in response to the data in the data memory circuit, also adapted to intercept information from the packet-based communication system and to store the intercepted information in the data memory circuit is met by the system controller 38 in conjunction with the converter 34 and the interface pods 44, which all serve to exchange processed data between the communication bus 36 and the external mass media providers. In the case of the Ellis reference, the input device 140 or the remote control 54 can be used to request

information from the stored information at the server [paragraphs 0085-0086]. The server may be used to implement a client-server based interactive television program guide system. Also, the server 42 may be capable of handling text, graphics, and video [paragraph 0062]. It would have been clearly obvious to one of ordinary skill in the art at the time of the invention to implement the "converter/system controller" of Hamlin like the server taught by Ellis, in order to use a typical client-server architecture in the home for storing and serving video and other data to devices in the home, just as the typical server does on a much larger scale, in which users can utilize the input devices to request stored information, much like is done in a video on demand system which is commonplace in the art.

The claimed user means for inputting message-retrieval control signals,
wherein the processor arrangement responds to the message-retrieval
control signals by displaying messages from the data memory circuit is
met by the human input device 55 and/or remote controller 42 for
controlling the system controller 38, in an attempt to configure and reroute data according to the appliance and interface pod that the data will
be viewable on.

Regarding claim 56, the claimed user input means being at least one of: an IR key panel, a wall-mount unit for the system, a TV, a telephone, a computer, a videophone, a videocassette recorder, a wireless phone, a remote control, a modem, a

voice recognition system, an Internet access device, a keypad, and a touch screen is met by the human input device 55 and/or remote controller 42.

Regarding claim 57, the claimed processor arrangement being further adapted to write data-intercept select data into the memory circuit in response to signals received from the packet-based communication system is met by the ability for the user to control the system controller 38 and reconfigure the system based on the system database storage 48, in an attempt to configure and route information on the packet-based communication system as necessary [col. 3, line 59 – col. 4, line 33].

Regarding claim 58, the claimed processor arrangement being further adapted to write data-intercept select data into the memory circuit in response to signals received from the input means is met by the system controller 38 in conjunction with the system database storage 48 and human input device 55, which serve to reconfigure data in the memory, allowing for routing of information and data as desired by the user.

Regarding claim 59, the claimed user communication device including a TV monitor is met by the system controller 38, having a display device 45, and CPU 43 [col. 3, lines 59-65].

Regarding claim 63, the claimed user communication device including a computer adapted to communicate on the Internet is met by the discussion of the connection via an ADSL line, which can provide Internet Connections [col. 2, lines 59-67].

Regarding claim 64, the claimed packet-based communication system including at least one of: a cable modem, a wireless modem, a broadband modem, a telephone

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modem, a DSL, a T1 line, and a computer network is met by he modem coupled to the system controller as discussed in column 4, lines 9-15.

Regarding claim 65, the claimed method for controlling communications data in a communications system having a NIU, a user interface device, a plurality of communications appliances, and a bussing system is met as follows:

- The claimed step of using the user interface device and programming the NIU with configuration information for external-services data is met by the discussion of the system database storage 48, which serves to store configuration information for the mass media providers, the configuration information programmed by the user via the system controller 38 [col. 3, line 59 – col. 4, line 27].
- The claimed step of receiving external-services data at the NIU is met by the converter's 34 ability to receive information from mass media providers.
- The claimed step of "storing the received external services data in a memory circuit" is partially met by is met by converter 34, which serves to receive the external services data and send it to the bussing arrangement [col. 3, lines 3-13]. As noted above, the Hamlin reference does not discuss that the external services data can be stored on the converter. The Ellis reference, however, does teach that the in-home server 80 can store and serve video to users throughout the home via a bussing arrangement [paragraphs 0062 and 0074]. The configuration data stored

in the system database storage 48, as discussed above, is used and taught by the Hamlin reference to monitor and control activity throughout the home [col. 4, lines 16-27]. It would have been clearly obvious to one of ordinary skill in the art at the time of the invention to implement the "converter/system controller" of Hamlin like the server taught by Ellis, in order to use a typical client-server architecture in the home for storing and serving video and other data to devices in the home, just as the typical server does on a much larger scale.

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- The claimed step of configuring the stored external-services data and transferring the configured data via the bussing arrangement to one of the communications appliances is met by the communication bus 36, which serves to send the information (according to the system database storage 48) to each interface pad 44, after having received the media from the converter 34 [col. 3, lines 3-23].
- The claimed step of receiving the transferred external-services data at the
 one communications appliance is met by the reception of the data via the
 communication bus 36 at the interface pod 44 and eventually the receiving
 unit 46.

Regarding claim 66, the claimed step of programming the data receiving unit with configuration information including programming routing information for routing the external-services data to particular ones of a plurality of communications devices is met

by column 4, lines 9-33, wherein the ability to configure and route data appropriately throughout the system is disclosed.

Regarding claim 68, the claimed plurality of communications devices including an Internet device, wherein the routing data includes the assignment of a particular Internet protocol address to the Internet device is met by the modern discussed in column 4, lines 9-15 and the ability for the routing data to contain interface pod address locations [col. 4, lines 9-27].

Regarding claim 70, the claimed step of using the user interface device and programming the NIU with configuration information for external-services data including programming from an external-services provider location, wherein the configuration information controls the type of external services that the NIU passes to the plurality of communications devices is met by the system controllers ability to configure the system database storage 48 with information received via a mass media signal [col. 4, lines 16-27].

Regarding claim 74, the claimed external-services provider location programming the NIU with a packet-based access package is met by the discussion of the modem being used to program the system controller through a digital line protocol engine [col. 4, lines 9-15].

4. Claims 20 and 50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamlin US patent 5,574,964, cited by examiner, in view of Ellis et al (US Pub. No. 2005/0251827), cited by examiner, in further view of Goldstein US patent 5,410,326, cited by examiner.

Regarding claim 20, Hamlin and Ellis teach all of that which is discussed above with regards to claim 1. Neither Hamlin nor Ellis teach the inclusion of a security code in the input device, wherein the NIU is further adapted to respond only to commands having the security code. Goldstein discloses a system in which the converter responds to only commands sent from a remote control with a specific identification number, for security purposes [col. 4, lines 57-65]. It would have been obvious to one of ordinary skill in the art at the time of the invention to use a security code in the remote controller, in order to allow for tighter security and use by only those authorized users.

Regarding claim 50, Hamlin and Ellis teach all of that which is discussed above with regards to claim 46. Neither Hamlin nor Ellis teaches the reconfiguration of the processor arrangement in response to a user-provided security code. Goldstein discloses a system in which the converter responds to only commands sent from a remote control with a specific identification number, for security purposes [col. 4, lines 57-65]. It would have been obvious to one of ordinary skill in the art at the time of the invention to use a security code in the remote controller, in order to allow for tighter security and use by only those authorized users.

5. Claims 7, 22, 29, 31, 37-41, 67, and 75 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamlin US patent 5,574,964, cited by examiner, in view of Ellis et al (US Pub. No. 2005/0251827), cited by examiner, in further view of Edens et al US patent 6,611,537, cited by examiner.

Regarding claim 7, Hamlin and Ellis teach all of that which is discussed above with regards to claim 1. Neither Hamlin nor Ellis teaches that the user input device includes a telephone adapted to select NIU commands from a command menu programming into the NIU. Edens et al teach a system that detects a "ring" on an analog PSTN line and uses the "ring" to control the processing functionality of the system using DTMF dialing [col. 96, lines 36-46]. It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the ability to control the system over a telephone connection (as taught by Edens et al) in order to allow for remote controllable processing and programming within the system.

Regarding claim 22, Hamlin and Ellis teach all of that which is discussed above with regards to claim 21. Neither Hamlin nor Ellis teach that the configuration data includes telephone data including at least one of: the telephone number assigned to the phone, call waiting options, caller ID options, answering options, forwarding options, message storage options, call blocking options, and call screening options. Edens et al teach a system in which call configuration data, in the form of caller ID is delivered to the system [col. 96, lines 36-46]. It would have been obvious to one of ordinary skill in the art at the time of the invention to deliver caller ID information with the call in order to allow for easy viewing of caller identification and integration/use with pre-existing systems.

Regarding claim 29, Hamlin and Ellis teach all of that which is discussed above with regards to claim 1. Neither Hamlin nor Ellis teaches that the processor of the NIU is adapted to function as an answering machine for incoming telephony calls. Edens et

al teach a system that has an integrated recorder for use as an answering machine for incoming phone calls [col. 107, line 60 – col. 108, line 2]. It would have been obvious to one of ordinary skill in the art at the time of the invention to include answering machine functionality in order to allow for easy recording of telephone messages and integration/use with pre-existing systems and infrastructures for phone-call delivery.

Regarding claim 31, Hamlin and Ellis teach all of that which is discussed above with regards to claim 30. Neither Hamlin nor Ellis teach configuration information being received by the NIU in the form on DTMF tones, wherein the bussing arrangement includes a two-wire analog system, and wherein the user input device is adapted to send control signals to the NIU including DTMF tones. Edens et al teach a system that detects a "ring" on an analog PSTN line and uses the "ring" to control the processing functionality of the system using DTMF tones [col. 96, lines 36-46]. It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the ability to control the system over a telephone connection using DTMF tones (as taught by Edens et al) in order to allow for remote controllable processing and programming within the system using pre-existing DTMF functionality.

Regarding claim 37, Hamlin and Ellis teach all of that which is discussed above with regards to claim 1. Neither Hamlin nor Ellis teaches a plurality of appliances including a microphone adapted for use in an intercom system. Edens et al teach a system that utilizes a microphone for use as a monitoring/speakerphone/intercom system [col. 97, lines 7-15]. It would have been obvious to one of ordinary skill in the art at the time of the invention to include an intercom system, in order to allow for a fully

functional and easily interactable home automation system, in which telephone system integration was utilized to its fullest extent.

Regarding claim 38, Hamlin, Ellis, and Edens et al teach all of that which is discussed above with regards to claim 37. Neither Hamlin nor Ellis teach the claimed monitoring device coupled and adapted to receive audio signals from the microphone and, responsive to detecting an audio signal above a threshold level, send an alert signal to a user via the NIU. Edens et al disclose a monitoring device, which utilizes two audio streams and a speakerphone system to alert another user of audio information [col. 97, lines 7-15]. It would have been obvious to one of ordinary skill in the art at the time of the invention to include monitoring system, in order to allow for a fully functional and easily interactable home automation system, in which telephone system integration was utilized to its fullest extent.

Regarding claim 39, Hamlin, Ellis, and Edens et al teach all of that which is discussed above with regards to claim 38. Neither Hamlin nor Ellis teaches that the microphone is located near an infant, and the system is used to monitor the infant. Edens et al disclose the aforementioned system and even suggest its use as a baby monitor [col. 97, lines 7-15]. It would have been obvious to one of ordinary skill in the art at the time of the invention to include monitoring system, in order to allow for a fully functional and easily interactable home automation system, in which telephone system integration was utilized to its fullest extent.

Regarding claim 40, Hamlin, Ellis, and Edens et al teach all of that which is discussed above with regards to claim 39. Neither Hamlin nor Ellis teaches that the

alert includes a page signal. Edens et al disclose the aforementioned system and even suggest its use as a baby monitor for alerting a parent of infant noises (via the speakerphone system) [col. 97, lines 7-15]. It would have been obvious to one of ordinary skill in the art at the time of the invention to include monitoring system, in order to allow for a fully functional and easily interactable home automation system, in which telephone system integration was utilized to its fullest extent.

Regarding claim 41, Hamlin, Ellis, and Edens et al teach all of that which is discussed above with regards to claim 38. Neither Hamlin nor Ellis teaches that the microphone is adapted to monitor noise for security monitoring. Edens et al disclose a monitoring system for monitoring noise within a household [col. 97, lines 7-15]. It would have been obvious to one of ordinary skill in the art at the time of the invention to include monitoring system, in order to allow for a fully functional and easily interactable home automation system, in which telephone system integration was utilized to its fullest extent.

Regarding claim 67, Hamlin and Ellis teach all of that which is discussed above with regards to claim 66. Neither Hamlin nor Ellis teaches that the routing data includes the assignment of a particular telephone number to the telephony device. Edens et al disclose a system for multi-line conferencing, which can utilize multiple telephones, each with their own telephone number [col. 96, lines 36-46]. It would have been obvious to one of ordinary skill in the art at the time of the invention to include telephone phone number identification, in order to allow for a fully functional and easily

interactable home automation system, in which telephone system integration was utilized to its fullest extent.

Regarding claim 75, Hamlin and Ellis teach all of that which is discussed above with regards to claim 70. Neither Hamlin nor Ellis teaches that the external-services provider location programs the NIU with a telephony-based access package. In order for the telephones within the Edens et al system to interact with the outside world, an access package is provided through the POTS server 186 to take care of controlling Multiple Phones. It would have been obvious to one of ordinary skill in the art at the time of the invention to include a telephone package system for use with multiple phones at one premises, in order to allow for a fully functional and easily interactable home automation system, in which telephone system integration was utilized to its fullest extent.

6. Claims 17-19, 52, and 60-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamlin US patent 5,574,964, cited by examiner, in view of Ellis et al (US Pub. No. 2005/0251827), cited by examiner, in further view of Cohen et al US patent 4,837,798, cited by examiner.

Regarding claim 17, Hamlin and Ellis teach all of that which is discussed above with regards to claim 15. Neither Hamlin nor Ellis teaches that the first data form includes word processing data, and the second data form includes audio data. Cohen et al teach multiple data forms for use in a unified system (text and audio being two of those data forms) [see Abstract]. It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the two data forms and conversion

techniques from one to the other, in order to create a more comprehensive and consistent facility.

Regarding claim 18, Hamlin, Ellis, and Cohen et al teach all of that which is discussed above with regards to claim 17. Neither Hamlin nor Ellis teaches that the first data form includes an email message, and the NIU is adapted to read and convert the email into an audio message. Cohen et al teach a conversion from e-mail message to voice/audio message using the text-to-speech technology. It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the two data forms (e-mail and audio) and conversion techniques from one to the other, in order to create a more comprehensive and consistent facility.

Regarding claim 19, Hamlin and Ellis teach all of that which is discussed above with regards to claim 15. Neither Hamlin nor Ellis teaches that the first data form includes audio data, and the second data form includes word processing data. Cohen et al disclose a system that can convert among multiple forms of data (including text and voice). Figures 7 and 8 clearly indicate the transmissions from e-mail to text and from text to e-mail using appropriate engines. It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the two data forms (e-mail and audio) and conversion techniques from one to the other, in order to create a more comprehensive and consistent facility.

Regarding claim 52, Hamlin and Ellis teach all of that which is discussed above with regards to claim 46. Neither Hamlin nor Ellis teaches a voice-generating unit adapted to produce prerecorded messages. Cohen et al disclose a system that can

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generate voice from text using a text-to-speech engine [col. 2, line 67 – col. 3, line 3] and store them within the system for use as prerecorded messages. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the text-to-speech engine in order to create a more comprehensive and consistent facility for managing messages of all types.

Regarding claim 60, Hamlin and Ellis teach all of that which is discussed above with regards to claim 55. Neither Hamlin nor Ellis teaches a voice-generating unit adapted to produce prerecorded messages. Cohen et al disclose a system that can generate voice from text using a text-to-speech engine [col. 2, line 67 – col. 3, line 3] and store them within the system for use as prerecorded messages. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the text-to-speech engine in order to create a more comprehensive and consistent facility for managing messages of all types.

Regarding claim 61, Hamlin, Ellis, and Cohen et al disclose all of that which is discussed above with regards to claim 60. Neither Hamlin nor Ellis teaches that the voice-generating unit audibly produces the prerecorded messages over the user communication device. Cohen et al disclose that the message recipient has a single controllable point of contact where all messages can be scanned and/or viewed [Abstract]. This indicates that the prerecorded messages can be reproduced at the user communication device. It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize a voice-generating unit to audibly produce

prerecorded messages, in order to create a more comprehensive and consistent facility for managing messages of all types.

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Regarding claim 62, Hamlin, Ellis, and Cohen et al disclose all of that which is discussed above with regards to claim 61. Neither Hamlin nor Ellis teaches that the prerecorded messages are audibly produced at a sound level over that of the first audio signal. Cohen et al disclose a system in which the user can select which audio signal to make audible [col. 2, lines 57-68]. To make an audio signal audible, it would have to be louder than the first audio signal. It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize a voice-generating unit to audibly produce prerecorded messages, in order to create a more comprehensive and consistent facility for managing messages of all types.

7. Claims 69 and 71-73 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamlin US patent 5,574,964, cited by examiner, in view of Ellis et al (US Pub. No. 2005/0251827), cited by examiner, in further view of Lewis US patent 5,835,126, cited by examiner.

Regarding claim 69, Hamlin and Ellis teach all of that which is discussed above with regards to claim 66. Neither Hamlin nor Ellis teaches that the routing data includes the assignment of a particular television subscription package to the TV. Lewis discloses a system that utilizes an Account/Billing System 106 in order to deliver subscription packages to the televisions in the network. Column 3, lines 50-57 and column 6, lines 25-33, make it clear that the system being implemented utilizes some sort of subscription package to manage accounts and billing. It would have been

obvious to one of ordinary skill in the art at the time of the invention to include subscription package details, in order to allow for pay-per-view movies and more options for standard interactive television within the home system.

Regarding claim 71, Hamlin and Ellis teach all of that which is discussed above with regards to claim 70. Neither Hamlin nor Ellis teaches that the external-services provider location programs the NIU with a television subscription package. Lewis discloses a system that utilizes an Account/Billing System 106 in order to deliver subscription packages to the televisions in the network. Column 3, lines 50-57 and column 6, lines 25-33, make it clear that the system being implemented utilizes some sort of subscription package to manage accounts and billing. It would have been obvious to one of ordinary skill in the art at the time of the invention to include subscription package details, in order to allow for pay-per-view movies and more options for standard interactive television within the home system.

Regarding claim 72, Hamlin, Ellis, and Lewis teach all of that which is discussed above with regards to claim 71. Neither Hamlin nor Ellis teaches that the television subscription package includes a specified number of television sets that can use the television data. Lewis discloses a system that utilizes an Account/Billing System 106 and a Video Control System 104 in order to deliver subscription packages to multiple televisions in the network. Column 3, lines 50-57 and column 6, lines 25-33, make it clear that the system being implemented utilizes some sort of subscription package to manage accounts and billing. It would have been obvious to one of ordinary skill in the art at the time of the invention to include subscription package details, in order to allow

for pay-per-view movies and more options for standard interactive television within the home system.

Regarding claim 73, Hamlin, Ellis, and Lewis teach all of that which is discussed above with regards to claim 71. Neither Hamlin nor Ellis teaches that the television subscription package includes a pay-per-view event. Lewis discloses a system that utilizes an Account/Billing System 106 in order to deliver subscription packages to multiple televisions in the network. Column 3, lines 50-57 and column 6, lines 25-33, make it clear that the system being implemented utilizes some sort of subscription package to manage accounts and billing. It would have been obvious to one of ordinary skill in the art at the time of the invention to include subscription package details, in order to allow for pay-per-view movies and more options for standard interactive television within the home system.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Edson (USPN 6,526,581) discloses a Home Gateway for distributing data throughout the home. He mentions the use of a storage device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael R. Shannon who can be reached at (571) 272-

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7356 or Michael.Shannon@uspto.gov. The examiner can normally be reached by phone Monday through Friday 8:00 AM – 5:00PM, with alternate Friday's off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller, can be reached at (571) 272-7353.

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Michael R Shannon Examiner Art Unit 2614

Michael R Shannon December 10, 2005

JOHN MILLER

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